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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **59100269**(51) Intl. Cl.: **B01D 21/24**(22) Application date: **18.05.84**

(30) Priority:	(71) Applicant: <b>MITSUBISHI KAKOKI KAISHA LTD</b>
(43) Date of application publication: <b>04.12.85</b>	(72) Inventor: <b>SENOO OSAMU WATANABE HIDENORI</b>
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**(54) APPARATUS FOR  
REMOVING  
CONTAMINATED DEPOSIT**

(57) Abstract:

**PURPOSE:** To easily separate and remove a supernatant liquid and sludge, by falling a float equipped with a diaphragm pump and a stirring blade in a tank receiving deposited sludge and the supernatant liquid before operating said pump and stirring blade.

**CONSTITUTION:** An apparatus equipped with a circular float 1, the diaphragm pump 2 connected to said float 1 and stirring blades 5 is suspended and floated on the supernatant liquid surface 23 above deposited sludge 24. The diaphragm pump 2 is driven and the supernatant liquid is sucked up through the suction hose 6 opened to a lower hood 13 and sent to a liquid cyclone from an emitting hose 7 to separate a small amount sludge mixed in said supernatant liquid. When the supernatant liquid surface 23 is fallen and the lower end of the apparatus is contacted with the sludge surface 24, water issued from the liquid cyclone

is returned to a tank and the apparatus is moved over the entire surface of the tank bottom part while the stirring blades 5 are rotated. The deposited sludge is sent to the liquid cyclone as conc. sludge and separated from the liquid.

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